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May 1979



MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

STATE DOCUMENTS COLLECTION

Monthly Activities Report
of the Air Quality Bureau

JUL 30 1979

May, 1979

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Helena, Montana 59601

1. Highlights

A staff meeting was held for the Air Quality Bureau staff, as well as the local county agencies to discuss budgets, network reviews, and problems anyone might be having.

The Bureau budget was prepared and submitted for FY 80.

2. Ambient Air Quality Network

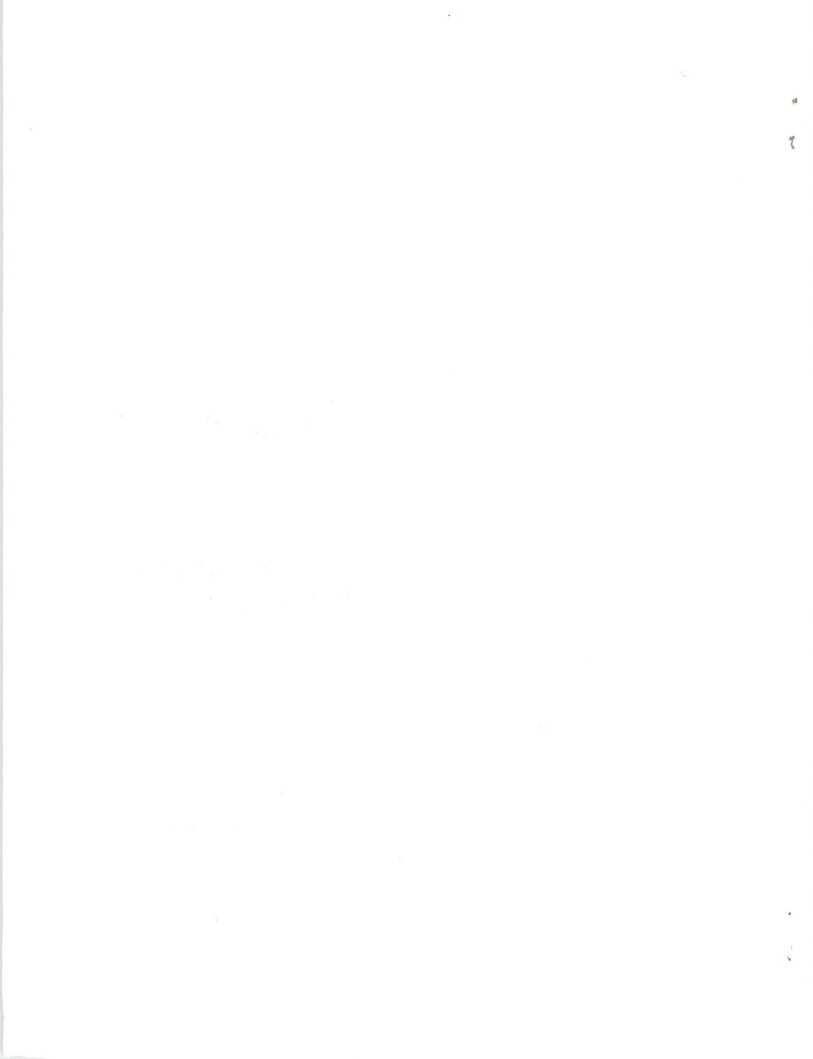
- a. Standards exceeded: elevated readings of sulfur dioxide and ozone were recorded at Central Park (Billings) and an elevated reading of sulfur dioxide was recorded at Lockwood during mid-May.
- b. Air Stagnation Advisories - None in May
- c. Laboratory Status - Information not received for May
- d. Other

Network review will cause some ambient monitoring network changes based on the May 10, 1979, Federal Register. In general, TSP and CO sampling will increase, while sampling for other parameters will decrease. Certain company stations will be integrated into the state's monitoring system.

3. Permits and Tax Credits

- a. Construction Permits, Applied for

Department of Highways, Missoula, hot mix plant
Gus Albert, Dawson County, hot mix plant
Department of Highways, Flathead Co., asphalt plant
Department of Highways, St. Regis Canyon, hot mix plant
Century Paving, Sheridan Co., Barber Greene asphalt plant
Department of Highways, Townsend, asphalt plant
Empire Sand & Gravel, Big Horn Co., gravel crusher and batch plant
Peter Kiewit Sons, Babb, crushing plant
Rehbein Contracting, Mineral & Missoula, asphalt plant
Jim Gilman Excavating, Deer Lodge Co., crushing plant
R. J. Studer, Carbon Co., crushers
Department of Highways, Custer Co., hot mix plant
Baltrusch Construction, Blaine Co., portable gravel crusher
Department of Highways, Fergus Co., hot mix plant
R. J. Studer, Carbon Co., asphalt plant
Department of Highways, Roundup, batch plant



3. Continued

Construction permits approved

ASARCO-Troy, baghouse and crusher
U. S. Gypsum, Fergus Co., dust collectors
Zook Construction, portable gravel crushers
Zook Construction, jaw crushers
Century Paving, Fergus Co., asphalt batch plant
Century Paving, Sheridan Co., dryer drum mixer
Maronick Construction, Judith Basin, gravel crusher
Meyer Construction, Sheridan Co., portable gravel crusher
Department of Highways, St. Regis, hot mix plant
Gus Albert, Dawson Co., hot mix plant
Department of Highways, Roundup, asphalt batch plant
Jim Gilman, Deer Lodge Co., crushing plant
R. J. Studer, Carbon Co., asphalt plant

c. Tax Credits

Montana Power and Puget Power have applied for additional tax credit for Colstrip Units 1 and 2.

4. Variance Status

a. Current

Anaconda Company, SO, variance approved in November, 1978
ASARCO, one year variance granted through June 30, 1979

b. New - None in May

5. Enforcement Actions

a. Citations:

Butte Silver Bow batch plant

b. Notice of Violations:

Butte Silver Bow batch plant

6. Tepee Burner and Open Burning

Tepee burner - number in operation - 20

Open burning permits issued:

Kalispell Office	155	Sanders County	165
Cascade County	42	Yellowstone County	118
Lake County	149	Rest of State	1692
Missoula County	47	Total	2368

7. Source Tests Performed

- a. Agency Source tests - None in May
- b. Non-agency source tests - None in May

8. Field Investigations

Butte-Silver Bow County hot mix plant, excess emissions, citation issued
Caird Engineering, Helena, yellow smoke, investigation
MONTCO, Powder River County, inspected monitoring sites for proposed
coal mine
Peabody Coal Company, Rosebud County, investigated mine site
Montana Pole and Treating, Butte, investigation
Louisiana Pacific, Deer Lodge, investigation
Brand S Lumber, Livingston, investigation
Rice Transport, Shelby, investigation

9. Complaints

Plum Creek Lumber, Columbia Falls, soot, telephoned
Helena Sewage Treatment Plant, Helena, odor, referred to Water Quality
Top Quality Cleaning, Butte, dust, conversed by telephone
Exxon, Billings, stack plume impacting area
Unidentified, Lockwood, strong odor
Individual, Mill Creek, smelter emissions causing health problems
Individual, Colstrip, dust, investigation
Brand S, Livingston, soot, investigation
Individual, Kalispell, open burning, letter sent
C & C Plywood, Kalispell, smoke, inspection

10. Data Processing Services

- a. Ambient Data Summary - Attached
- b. Emission Inventory Status: no significant activities
- c. Prevention of Significant Deterioration - no significant activities
- d. Modeling - work continuing on readying the UNAMAP models and constructing the Montana Air Resources Modeling System.

11. Environmental Impact Statements

Work is continuing on the Ambient Air Quality Standards Study; final impact statement is due out in August

12. Status of Studies, Contracts and Reports

Poplar River Study - second year report due in July
Flathead Environmental Study - first year report due in July
MAPS Meteorology report - due in June
MAPS Mutagen report - due in July

13. Schools and Training

State AQB-local staff meeting held in May.
Attended week meeting in Denver reviewing quality assurance, network review, and general monitoring problems.

14. Public Hearings and Meetings

Board of Health Hearing, May 13, 1979

Meetings attended:

EPA, Helena, regarding Poplar River status
Government officials, Regina, Sask., regarding Poplar River power plants
federal agencies, Helena, statewide air monitoring agreement
EPA, Denver, monitoring meeting with Region 8 people
American Colloid, Helena, discuss sampling plans for bentonite plant

Intra-staff meetings

AQB staff meetings
MAPS staff meetings

15. Public Information Requests

Rules and regulations - New rules sent out to those requesting them
approximately 50 copies
Clean Air Act - approximately 8
Many miscellaneous pamphlets and reports for high school students for
term papers on air pollution

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

April 1979

Pollutant: Miscellaneous Continuous Data Units: ppm

AREA		HIGH READING		ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	No. of Mon. of Data	
140	Carbon Monoxide					
	Fairgrounds			***		
141	10th Ave. South	9.7	15.8	15.8	2.53	4
142	Great Falls					
	Alpine West	2.2	16.0	16.0	1.45	4
	Butte					
	Hebgen Park					
	Butte					
	Lincoln School					
	Anaconda					
144	Malfunction Jct.					
	Missoula					
	Lion's Park			***		
	Missoula					
	Hydrocarbons					
142	Hebgen Park					
	Butte					
	Lincoln School					
	Anaconda					
144	Lion's Park					
	Missoula					
140	Central Park	0.078	0.078	0.110	0.019	4
142	Billings	0.056	0.060	0.060	0.037	4
	Lincoln School					
	Anaconda	0.068	0.060	0.077	0.044	4
	Hebgen Park					
	Butte					
144	Lion's Park			***		
	Missoula					

*** - Insufficient data for month.

Pollutant: Miscellaneous Continuous Data Units: ppm

AREA		HIGH READING		ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	No. of Mon. of Data	
140	Nitrogen Dioxide					
	Central Park	0.060	0.095	0.095	0.020	2
142	Billings					
	Lincoln School	0.035	0.035	0.035	0.004	4
	Anaconda					
	Hebgen Park					
	Butte					
144	Lion's Park					
	Missoula					
140	Sulfur Dioxide					
	Central Park	0.110	0.225	0.225	0.015	4
	Billings					
	Lockwood Sch.	0.350	0.350	0.350	0.011	4
	Billings					
	Laurel Farm	0.13	0.74	0.74	0.055	4
142	Laurel					
	East Stack			**		
	East Helena					
	Microwave			**		
	East Helena					
	Broudy Ranch					
	East Helena					
	Hwy Jct.	0.01	2.30	2.75	0.025	4
	Will Creek					
	Anaconda	0.40	1.62	1.62	0.025	4
	Lincoln School	0.02	1.03	1.03	0.03	4
	Anaconda					
	Hebgen Park	0.061	0.092	0.092	0.010	4
	Butte					

** - Site temporarily shut down.

Pollutant: Miscellaneous Indicators Units:

AREA		HIGH READING		ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	No. of Mon. of Data	
141	Dustfall - tons/sq. mi.					
	Mountain Stat.					
	Great Falls					
	Fine Sta. #1					
	Great Falls					
140	Sulfation Rate - mg/sq/100 sq. mi.					
	3/8 mt. NE Coop					
	Billings					
	E of Laurel					
	Billings					
	Hl Ball Trucking					
141	Billings					
	Stock Car Track					
	Great Falls					
	Phillips Ref. N					
	Great Falls					
	Phillips Ref. E					
	Great Falls					
142	Microwave	0.0	0.56	0.56	0.29	4
	East Helena					
	212 E. Pacific	0.16	0.37	0.37	0.25	4
	East Helena					
	East Stack Sta.	0.26	0.47	0.47	0.32	4
	East Helena					
	Broudy Ranch	0.0	0.27	0.27	0.13	4
	East Helena					
	2580 Prickly Pear	0.07	0.31	0.31	0.18	4
	East Helena					

Pollutant: Miscellaneous Indicators Units:

AREA		HIGH READING		ARITHMETIC AVER.		Comments
AQCR	Site Location	Current Month	Year-to-Date	Running Year	No. of Mon. of Data	
144	Fluoride Papers					
	Oaklomb's Mc Box			*		
	Flathead Co.			*		
	Anaconda South			*		
	Flathead Co.			*		
	Glacier Park #1			*		
	Glacier Nat. Pk			*		
	Glacier Park #2			*		
	Glacier Nat. Pk			*		
	Glacier Park #3			*		
	Glacier Nat. Pk			*		
144	Fluoride Plates					
	Anaconda South			*		
	Flathead Co.			*		
	Trailer NAAC			*		
	Flathead Co.			*		
	Glacier Park #1			*		
	Glacier Nat. Pk			*		
	Glacier Park #2			*		
	Glacier Nat. Pk			*		
	Glacier Park #3			*		
	Glacier Nat. Pk			*		
143	Border Site	0.0	0.0	0.0	0.0	4
	Scobey					
143	Border Site	0.0	0.01	0.01	0.0	4
	Scobey					

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

April 1979

Pollutant: Total Suspended Particulate Units: micro gram/cubic meter

AQCR	AREA	HIGH READING			ARITHMETIC AVER.			Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days	of	
140	Worton-Decker Big Horn Co.	49	79	79	30	4		
	Warren Ranch Big Horn Co.							
	KSHL	46	69	155	42	4		
	Billings City Hall	122	288	288	84	3		
	Billings Grand Ave. Sch.	171	302	302	82	4		
	Billings Central Park	134	246	246	56	4		
141	Billings Laurel Jr. High	57	81	111	34	4		
	Hospital Roof							
	Great Falls Fire Sta. #1							
	Great Falls Kwanis Park	78	111	111	38.5	4		
142	Great Falls Highway Jct.							
	Anaconda Lincoln School	94	303	303	47.5	4		
	Anaconda Floral Park Butte	109	112	112	57	4		

* - Data unavailable at time of report.

Pollutant: Total Suspended Particulate Units: micro gram/cubic meter

AQCR	AREA	HIGH READING			ARITHMETIC AVER.			Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days	of	
142	McKinlay Res. Granite Co. Dr. Conty Res.	97	97	142	40	4		
	Butte Greeley School	148	161	181	68	4		
	Butte Heugen Park	86	196	196	89	4		
	Butte Tierney Res.	98	225	225	78	4		
	Silver Bow Co. Microwave	80	80	81	35	4		
	Jefferson Co. 212 E. Pacific	41	69	101	36	4		
	East Helena Cogswell Bldg.	86	124	201	74	4		
	East Helena	72	211	211	62	4		
	East Helena	11	11	34	5	4		
	East Helena Rosebud Co. Fort Peck	15	15	58	8	4		
	East Helena McNee Co. BN Site	27	40	138	18	2		
	East Helena Colstrip	31	31	31	12	4		
	East Helena Border Site	13	14	80	8	4		
	East Helena Scobey							

** - No valid samples submitted.

Pollutant: Total Suspended Particulate Units: micro gram/cubic meter

AQCR	AREA	HIGH READING			ARITHMETIC AVER.			Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days	of	
144	Anders Res. Col. Falls	257	353	375	119	4		
	Traylor NAAC Flathead Co.	63	63	63	25	4		
	Ronan Lake Co.	166	168	170	63	4		
	Polson Lake Co.	94	94	94	34	3		
	Polson Lake Co. Moose City							
	Flathead Co. Libby-Brown	475	523	1384	196	4		3 exc Fed Pri. Std.
	Lincoln Co. 184	343	343	343	106	4		1 exc Fed Sec. Std.
	Kalispell-Strom Flathead Co.	130	267	267	94	4		
	Courthouse Roof Missoula	135.3	419	419	124.9	4		
	Lion's Park Missoula	116.6	317	3.7	106.6	4		
	Rose Park Missoula	73.3	117.9	117.9	43.2	4		
	Hoerner-Mald.#1	79.3	157.7	200.9	45	4		
	Hoerner-Mald.#2	73.9	96.5	124.8	34.7	4		
	Hoerner-Mald.#3	73.9	96.5	124.8	34.7	4		
	Missoula Co. Kalispell-Airport	117	120	120	61	3		
	Flathead Co.							

*** - Equipment malfunction - no data.

Pollutant: Respirable Particulate-Dichotomous Sampler Units: microgram/cubic meter

AQCR	AREA	HIGH READING			ARITHMETIC AVER.			Comments
		Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Days	of	
140	Central Park							
	Billings							
	141 Kwanis Park							
	Great Falls coarse	43.5	104.4	104.4	20.83	4		
	fine	17.3	21.3	28.9	13.78	4		
	142 Lincoln School							
	Anaconda							
	Heugen Park							
	Butte coarse	132.5	132.5	132.5	23.00	3		
	fine	18.5	40.7	64.9	26.40	3		
	Floral Park Fire Sta. - Butte	78.1	78.1	78.1	12.05	3		
	Scobey coarse	15.0	36.1	36.1	19.03	3		
	143 Border Stn							
	Scobey							
144	Lion's Park							
	Missoula coarse	68.3	184.2	184.2	43.18	4		
	fine	15.1	118.5	118.5	34.65	4		
	Courthouse Roof							
	Missoula coarse	50.0	72.7	72.7	14.3	1		
	fine	65.0	65.0	65.0	26.4	1		

* - Data unavailable at time of report.

